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# 151

GILINSKIY, Ye. Ye  
TO

SHUSTIN, N.A.; GILINSKIY, Ye.Ye.

Disturbances of cortical activity caused by removal of the frontal  
lobes. Trudy Inst.fiziol. 5:461-471 '56. (MLRA 10:1)

1. Laboratoriya fiziologii i patologii vysshey nervnoy deyatel'nosti -  
saveduyushchiy F.P.Mayorov, i Laboratoriya morfologii - saveduyushchiy  
N.G.Kolobov.  
(BRAIN)

GILINSKIY, YEFIM YAKOVLEVICH \*

N/5  
633.3  
.G4

Materialy po morfologii retseptornogo apparata zhaludka  
pozvonochnykh; sravitel'no-morfologicheskoye issle-  
dovaniye Materials on the morphology of the receptor  
apparatus of the stomach of vertebrates; research in  
comparative morphology Moskva, Leningrad, Izd-vo  
Akademii Nauk SSSR, 1958.

88 1 p. illus. At head of title: Akademiya Nauk SSSR.  
Institut Fiziologii.  
"Literatura": p. 85- 89

~~RECEIVED~~ ~~SEP 26 1958~~  
\* ~~RECEIVED~~ ~~SEP 26 1958~~

GILINSKIY, Ye.Ya.; KOROT'KO, G.F.

Additional materials on the mechanism of changes in the activity of the stomach due to high external temperature and exposure to solar radiation (neurological investigation). Izv.AN Uz.SSR.Ser.med. no.3:29-32 '59. (MIRA 12:8)

1. Andizhanskiy gosmedinstitut, kafedra normal'noy fiziologii.  
(STOMACH--SECRETIONS) (HEAT--PHYSIOLOGICAL EFFECT)  
(SOLAR RADIATION--PHYSIOLOGICAL EFFECT)

GILINSKIX, Ye.Ya.; MUSYASHCHIKOVA, S.S.

Changes in the peripheral blood, the nerve structure of some internal organs, and interoceptive reflexes from the stomach following general and local X-ray exposure. Trudy Inst. fiziol. 9:199-212 '60. (MIRA 14:3)

1. Laboratoriya fiziologii krovoobrashcheniya i dykhaniya (savyushchiy G.P.Kongradi) Instituta fiziologii im. I.P.Pavlova.  
(BLOOD) (DIGESTIVE ORGANS—INNERVATION)  
(REFLEXES) (X RAYS—PHYSIOLOGICAL EFFECT)

GILINSKIY, Ye.Ya.

Central innervation of the stomach. Trudy Inst. fiziol. 9:439-443  
'60. (MIRA 14:3)

1. Laboratoriya morfologii (zaveduyushchiy - N.G.Kolosov) Instituta  
fiziologii im. I.P.Pavlova.  
(STOMACH—INNERVATION) (VAGUS NERVE)

GILINSKIY, Ye.Ya.

Receptor apparatus of the stomach in the rainbow trout. Trudy Inst.  
fiziol. 9:444-447 '60. (MIRA 14:3)

1. Laboratpriya morfologii (zaveduyushchiy -- N.G.Kolosov) Instituta  
fiziologii im. I.P.Pavlova.  
(STOMACH--INNERVATION) (TROUT)



GABER, I.E.; GILINSKIY, Ye.Ya.

Change in the functional properties and structure of the peripheral nervous system of the small intestine following local infection with Mycobacterium tuberculosis culture. Biul. eksp. biol. i med. 55 no.3: 33-38 Mr '63. (MIRA 18:2)

1. Iz laboratorii eksperimental'noy patologii i terapii (zav. - kand. med. nauk G.S. Kan) Leningradskogo nauchno-issledovatel'skogo instituta tuberkuleza (direktor - prof. A.D. Semenov), Leningrad. Submitted June 26, 1962.

BUDOVOY, G.T.; MARTINKOV, I.P.; SHKOL'NIKOV, B.Ya.; GRIGOR'YEV, Ye.A.;  
SOLOMIN, V.V.; REZNIK, A.I.; IGNATOVICH, A.A.; OZONOV, A.K.;  
GILINSKOY, E.B.; ZHLINOV, V.Ye.; NEMENSKIY, M.I.; VOLKOV, N.I.,  
red.; VOSKANYAN, G.G., red.; KASIMOVSKIY, Ye.V., red.; FOMIN,  
A.Ya., red.; LISOV, V.Ye., red.; PONOMAREVA, A.A., tekhn. red.

[The district worker's manual; reference and methodological aid  
for economic and cultural planning in an administrative dis-  
trict] Spravochnik raionnogo rabotnika; spravochno-metodiche-  
skoe posobie po planirovaniu khoziaistvennogo i kul'turnogo  
stroitel'stva v administrativnom raione. Moskva, Ekonomizdat,  
1962. 439 p. (MIRA 15:7)

(Russia--Economic policy--Handbooks, manuals, etc.)

GILINSKY, S.M. (Moskva); TELENIN, G.F. (Moskva); TINYAKOV, G.P. (Moskva)

Method for calculating a supersonic flow about blunt bodies  
with a detached shock wave. Izv. AN SSSR Mekh. i mashinestr.  
no.4:9-28 Jl-Ag '64 (MIRA 17:8)

PERLIN, I.L.; GILIS, E.

Determining temperature decrease in the hot rolling of titanium.  
TSvet.met. 29 no.5:70-71 My '56. (MLRA 9:8)

1. Mintsvetmetzoloto.  
(Titanium--Metallurgy) (Rolling (Metalwork))

USSR/Soil Science - Organic Fertilizers:

J-4

Abs Jour : Ref Zhur - Biol., No 9, 1950, 2-629

Author : Gilis, P. B.

Inst :

Title : The Influence of Peat and Peat-Manure Composts on the Increase in the Yield of Agricultural Crops in Western Ukraine in 1950.

Orig Pub : V sb. Nauch. organ. uzb. SR, Kiev, AN UkrSSR, 1957, 121-127.

Abstract : The effect of peat and peat-mixture during autumn plowing in doses of 20 t/ha increased the yield of oats from 24 to 31 c/ha on gray forest soil.  
The winter crop increased from 160.6 up to 180.6 c/ha with the introduction of peat-mixture compost, consisting of 50% peat and 25% manure.  
The optimum line of composting is 6 t/ha.

Cont 1/

GILLIN, J. L., Doctor Sci. (dis.) "Effect of nitrogen fertilizers  
under a simulated cold water regime on the growth of the common wheat of  
the USSR." Moscow, 1960. 51 p.; Moscow: State of Lenin Agricul-  
tural Academy, 1960. 51 p.; 12 copies; not given; (K1,  
20-10, 1960).

GILJAROVSKIJ, V. A.: STUCHLIK, Jaroslav

Prolegomena to the study of neologisms. II. Psychology of neologisms  
& glossolalia. Cesk. psychiat. 54 no.4:216-222 Aug 58.

1. J. S. Lagerova 8, Praha 2.

(HALLUCINATIONS

in schizophrenia, with neologisms & glossolalia (Cz))

(SCHIZOPHRENIA, psychol.

neologisms & glossolalia in hallucinatory states (Cz))

... ..

... .. toxic dyspepsia.  
... ..

... ..  
... ..



GILKA, Frantisek, MVDr.; PEJSE, Mirko, MVDr.; TOMANKOVA, Alana

Diagnostics of abortions in cattle with special regard to the microbial and pathological findings in the abortus lungs. Veter medicina 9 no. 2:115-122 Mr '64.

1. Veterinary Examination Station, Opava. Head of the Station  
[MVDr] Z.Fojtach.

L 31122-66 ENT(1) SCTB DD

ACC NR: AP6011463

SOURCE CODE: CZ/0077/66/000/004/0170/0174

AUTHOR: Gilka, J. (Doctor of veterinary medicine)

ORG: none

TITLE: Physical and chemical changes in animal food products in the course of refrigeration and freezing in relation to hygienic defects

SOURCE: Veterinarstvi, no. 4, 1966, 170-174

TOPIC TAGS: food technology, food sanitation, food product machinery, freezing, refrigeration, protein, cell physiology

ABSTRACT: Physical changes in animal food products in the process of refrigeration and freezing are discussed. This area is less studied than corresponding changes in plant foodstuffs. These changes have a decisive effect on the quality of meat preserved by refrigeration and freezing. Understanding these changes can speed development of the most advantageous method for preserving animal food products at low temperatures. As a rule, the best method, technologically speaking, is also the best method from the point of view of economy and hygiene. In Czechoslovakia air is normally used as the heat-transfer and refrigerating medium. The relation of the dimensions and surface area of the

L 31122-66

ACC NR: AP6011463

piece of meat to be frozen to the evaporation rate, the effect of very low temperatures on enzymatic processes, and the loss in weight due to refrigeration and freezing are discussed. It is pointed out that fatty tissue is the most resistant to atmospheric oxygen as a refrigerant. [11]

SUB CODE: 02, 06/ SUBM DATE: none/ ORIG REF: 001/ CTH REF: 001  
SOV REF: 001/ ATD PRESS: 4239

Card 2/2 CC

ACC NR: AP6003462

AUTHOR: Gilka, J. (Doctor of veterinary medicine) (Brno); Zatocil, O. (Brno)

TITLE: Possibilities of spreading hoof and mouth disease through meat products

TOPIC TAGS: virus, ~~transmission of disease~~, ~~infectious disease~~, ~~control of disease~~, ~~epidemiology~~, ~~processed animal product~~, ~~animal by-product of disease~~, foot and mouth disease, disease control, epidemiology, processed animal product

SUB CODE: 06.02/SUBM DATE: none

Card 1/1

GILKA, Jaroslav

Source: CIA, 1963-1964

Problem of preserving the natural color in storing and packing  
meat and meat products. Prum potravin 14 nc.10:519-522 0  
'63.

1. Ustav pro hygienu a technologii potravin veterinarni fakulty  
Vysoke školy zemědělské, Brno.

GILKA, Jaroslav

Causes of brown color in meat from sublimation drying. Prum  
potravin 14 no.11:589-591 N'63.

1. Veterinarni fakulta Vysoke skoly zemedelske, Ustav pre  
hygienu a technologii potravin, Brno.

STAROSEL'TSEV, V.S., GIL'KIN, V.N.

Prospecting for copper-nickel ores based on the occurrence of  
boulders. Inform. sbor. NIIGA no.32:45-51 '62. (MIRA 16:12)

**GLIKINA, Ye.L.**

Studies on the effect of  $\gamma$ -rays on the development of Trichoccephalus trichiurus eggs; preliminary report. Med.paraz.i paraz. bol. 30 no.2:177-181 Mr-Apr '61. (MIRA 14:4)

1. Iz kafedry biologii Kubanskogo meditsinskogo instituta (dir. instituta - prof. V.K. Suprunov).  
(TRICHOSEPHALIASIS) (GAMMA RAYS--PHYSIOLOGICAL EFFECT)



10

INFLUENCE of TEMPERATURE and HEATING PERIOD on the REMOVAL of RESIDUAL STRESSES in AUSTENITIC STEELS. L. A. Gilman and V. P. Tekht. (Mototurbostroenie, 1948, No. 2, pp. 12-16 (in Russian) (Abstract) Centre national de la Recherche Scientifique, Bulletin Analytique, 1949, vol. 10, No. 2, p. 1164). Residual stresses were created in austenitic 18% chromium 8% nickel steel by quenching in water from 1050°C. The influence of tempering temperature in the range 600-850°C. Similar treatment for other austenitic steels is recommended.

A 10.31.2 METALLURGICAL LITERATURE CLASSIFICATION

1950 47 501 504

442870

8-34 4-10-99

1998

SILVERMAN, I.I., doktor tekhnicheskikh nauk, professor.

Stability of residual stresses and their effect on the mechanical  
properties of metals and the durability of pieces. Trudy ANI no.13:  
195-203 '56. (LRA 13:5)  
(Strains and stresses) (Metals--Fatigue)  
(Mechanical wear)

Calligraphy desobediencia i desobediencia porfiriana (Printing Openness and Surface Roughness) (Lentini) Issued Lentini - univ. de, 1960. 265 p. (Series: La Truque, v. 30) 1, 255 copies printed.

Ed. (Inside book): A.A. Martalis, Professor; Ed. (Outside book): G.M. Aron, Teacher.  
S.D. Vozolzhina.

**PURPOSE:** This collection of articles is intended for technical personnel in the mechanical building industry and for students in schools of higher technical education.

**CONCLUSIONS.** The collection contains articles on the problems of stereotyping methods of mechanical working, such as planning and experimental work with strain hardening, roll bending, flow grinding, etc., which would serve to increase the life of machine parts exposed to friction and wear, and thereby insure high productivity and economy. Methods for determining residual stresses (only in microtensile tests and microstrains) are discussed in detail. Also contained are the possibilities of using hydraulically actuated slide ways in tool production, the use of the group working method, and an attachment for program control of an existing lathe which would not necessitate reconstruction of the lathe. A description of advanced production methods and work planning used in plants of the German Democratic Republic is presented. No personalities are mentioned. References accompanying most of the articles.

57  
K. S. MALINOV, O. Ye. Rezhane Co. Provisional Training of Parts with the "Steel  
Page

~~The USSR, India~~ Doctor of Technical Sciences, Professor. Method of "external" research proposed.

## PART. II. MODERN METHODS OF THE AUTOMATION OF MATHEMATICAL CALCULATIONS

**WATER MANAGEMENT**

1. Dr. J. H. Van Dine, Associate of Technical Sciences, Decent. Problems of Labor  
Efficiency and Economy in the Application of Hydraulic Slide Ropes  
2. Dr. J. H. Van Dine

**McTearow, Gail Pauline**, Agency of Machinery on Lenses With a Hydraulic  
Cylinder Mount 129

Williamson, Ada Engineer. Experience gained in preparation for manufacture of parts by direct mounting method at the "Proconair" plant 197

Publitz, E.A. Candidate of Technical Sciences, Docent. Analysis of Performance of a Slotted-Coordinate System of Program Control of a Lathe (with 11 text articles)

Public House, 2nd. Capabilities of New Construction and Major  
Application

### PAGE III. ADVANCED MANUFACTURING METHODS

## PLANTS OF THE CARIBBEAN DEMOCRATIC REPUBLICS

# Management, Preparation for Production and Some Problems of Planning and Organization of Production in Plants of the German Democratic Republic

216 **Advanced Production Methods in the Industry of the German Democratic Republic**

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GILMAN, S. A.

22957 *Primeneniye metoda padayushchikh sharikov dlya kharakteristiki strukturnoy vyaskosti i tiksotropii. Doklady akad. Nauk SSSR, novaya seriya, T. LXVII, No. 3, 1949, C. 483-86.*

SO: LETOPIS' NO. 31, 1949

1. GILKMAN, S. A.; YEFRENGVA, O. G.
2. USSR (600)
4. Cellulose
7. Effect of metallic ions on the elastic-plastic properties of ethylcellulose.  
Dokl. AN SSSR, 31, No. 6, 1951. Red. 19 Sept. 1951.
9. Monthly List of Russian Accessions, Library of Congress 1952 (May). UNCLASSIFIED

GIL'KNER, Ye., yuriskonsul't.

Rights and duties of automotive transportation in regard to the  
customers. Avt.transp. 37 no.4:48 Ap '59. (MIRA 12:6)  
(Transportation, automotive)

GILKO, A. (Sr. Akhtubinskiy rayon, Stalingradskoy oblasti).

Activities of the Seminar for the Improvement of Teachers'  
Qualifications. Mat.v shkole no.1:84 Ja-F '54. (MLRA 7:1)  
(Mathematics--Study and teaching)

GILKSMAN, P.

GLIKSMAN, B. Managing high-voltage overhead lines in areas of highly polluted atmosphere. p. 305.

Vol. 9, No. 6, Nov./Dec. 1955

ENERGETIKA

TECHNOLOGY

Warszawa, Poland

So: East European Accession, Vol. 5, No. 5, May 1955



GILL', B.V., inzh.

Useful timely book ("Planning and building underwater pipe  
lines" by S.I. Levin. Reviewed by B.V. Gill') Stroi.  
truboprov. 6 no.6:31-32 Je '61. (MIRA 14:7)  
(Pipe lines)  
(Levin, S.I.)

ZARENKO, L.K., kand. fiz.-mat. nauk; KARFOV, A.K., inzh.; LEGOSTAYEV, P.Ye., kand. tekhn. nauk; GORODSKIY, Yu.N., kand. tekhn. nauk; KHERENOV, N.S., inzh.; KHODANOVICH, I.Ye., kand. tekhn. nauk; BRISKMAN, A.A., kand. tekhn. nauk; GORODETSKIY, V.I., inzh.; NIKITIN, A.A., inzh.; GILL', B.V., inzh.; KRAYZEL'MAN, S.M., inzh.; DZHAFAROV, M.D., inzh.; LUNEV, A.S., kand. tekhn. nauk; NIKITENKO, Ye.A., inzh.; YERSHOV, I.M., kand. tekhn. nauk; ZAYTSEV, Yu.A., inzh.; MAGAZANIK, Ya.M., inzh.; SHAROVATOV, L.P., inzh.; RABINOVICH, Z.Ya., inzh.; BIBISHEV, A.V., inzh.; ASTAKHOV, V.A., dots.; KOMYAGIN, A.F., kand. tekhn. nauk; ANDERS, V.R., inzh.; SERGOVANTSEV, V.F., kand. tekhn. nauk, dots.; UTKIN, V.V., inzh.; KUZNETSOV, P.L., inzh.; MAMAYEV, M.A., inzh.; SVYATITSKAYA, K.P., ved. red.; FEDOTOVA, I.G., tekhn. red.

[Handbook on the transportation of combustible gases] Spravochnik po transportu goriuchikh gazov. Moskva, Gostoptekhizdat, 1962. 887 p. (MIRA 15:4)  
(Gas, Natural--Transportation)

GILL, B.V., inzh.

"For further progress in pipeline construction." Reviewed by  
B.V. GILL. true prov. no. 5:30-31 My '62.

(MIRA 16:6)

(Pipelines)

GILL', B.V., inzh.

Standard planning is the most important condition for the improve-  
ment of planning. Stroi. truboprov. 8 no.3:9 Mr '63. (MIRA 16:5)  
(Pipelines—Design and construction)

GILL, F.

The removal of straw after combine harvesting. p.296.  
(Mechanisace Zemedelstvi, vol. 7, No. 13, July 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, No. 9, Sept. 1957 Unci.

GILL, I. L.

Cand. Technical Sci.

"Interference Rejection of Radio Telemetering Systems Subjected to Aperiodic Interference." Sub 20 Jun 47, Moscow Order of Lenin Power Engineering Inst izeni V. M. Molotov

Dissertations presented for degrees in science and engineering in Moscow in 1947

SO: Sum No. 457, 18 Apr 55

42909

S/547/62/000/146/002/004  
A001/A:01

AUTHOR: Gill', I. L.

TITLE: The improved model of the PBTД (RVTD) radar-altimeter

SOURCE: Moscow. Tsentral'nyy nauchno-issledovatel'skiy institut geodezii, aerofotogrammetrii i kartografii. Trudy. no. 146. 1962, Issledovaniya po fotogrammetrii, 17 - 22

TEXT: Radar-altimeters operate reliably in plain, hilly and forest regions, but in mountainous regions their functioning proved to be unsatisfactory, mainly due to insufficient power of generator of ultrahigh frequency in transmitter. In the present article the author describes a new model of modernized radar-altimeter in which the generator power was increased by a factor of 4.5 - 5. Since the circuits of the receiver and indicator remained practically unchanged, only the circuit of the radar-altimeter transmitter is described and presented in Figure 1. The generator produces oscillations of frequency  $f = 440$  Mc (wavelength  $\lambda = 68$  cm) and contains 8 tubes of 6H15П (6N15P) type assembled according to the ring circuit. Recurrent frequency of pulses is 16,000 cps and dura-

Card 1/3

The improved model of...

S/547/62/000/146/002/004  
A001/A10:

tion is about 0.4  $\mu$ sec. The output power of the generator is about 500 w. In addition to modernization of the transmitter, sensitivity of the radar-altimeter was increased by 4 - 5 times by eliminating some losses in antennas feeders and adaptors. Of a special importance is mentioned the MA3П(MAZP) device for operations in mountainous regions. This device blocks instantaneously the receiver as soon as the first reflected signal appears on the tube screen, which eliminates a simultaneous occurrence of several reflections, possible in mountains, leading to impossibility of finding the true altitude. In 1959, GVF and TsNIIGAIK tested four specimens of the modernized radar-altimeter in mountainous, high-mountainous and plain-hilly regions. Depending on the altitude of photographing and country relief, the number of negatives containing information on altitude amounts to 70 - 100% of the whole number of negatives in mountainous regions and 100% in plain-hilly regions. It is concluded that the modernized radar-altimeter is adequate to operations also in mountainous regions. There are 5 figures and 3 tables.

Card 2/3



L2911

S/547/62/000/146/004/004  
A001/A101

13.7200

AUTHOR: Gill', I. L.

TITLE: Phase relations in a tellurometer

SOURCE: Moscow, Tsentral'nyy nauchno-issledovatel'skiy institut geodezii, aeros'yemki i kartografii. Trudy. no. 146. 1962. Issledovaniya po fotogrammetrii, 147 - 152

TEXT: The new radar range finding device, tellurometer, can measure distances from 150 m to 50 km with an accuracy of  $5 \text{ cm} \pm 3 \times 10^{-6}$  on the average. Its simplified block-diagram is presented in the figure attached and the mode of operation is described in detail. The left-hand part of the figure represents the key station, A, and the right-hand part -- the slave station, B. Both stations are mounted at the points between which the distance is measured. The magnitude of this distance is read off the phase indicator which yields the quantity  $2\pi \frac{r}{v}$ , where  $r$  is distance being measured,  $v$  is velocity of radio wave propagation, and  $\omega = 2\pi F$  is angular oscillation frequency of the modulating quartz generator of Station A. The ultra-high frequency oscillator of Station B is

Card 1/3

Phase relations in a tellurometer

S/547/62/000/146/004/004  
A001/A101

modulated by sinusoidal oscillations from the quartz generator having angular frequencies  $\Omega - \Delta\omega$  and  $\Omega + \Delta\omega$ , where  $\Delta\omega = 2\pi\Delta F$ , is difference of angular frequencies of modulating oscillations at Stations A and B. It is recommended to carry out distance determination twice: one with the modulation frequency  $\Omega - \Delta\omega$ , and the other with the frequency  $\Omega + \Delta\omega$ ; thereby residual errors are eliminated. There is one figure.

GILL, James.  
Wydawnictwo PWN, Warszawa 1954

Application of certain method of determination of cellulose in investigation of digestion in ruminants. Acta physiol. polon. 5 no.4:528-530 1954.

1. Z Zakładu Fizjologii Zwierząt Wydz. Weterynaryjnego Szkoły Głównej Gospodarstwa Wiejskiego w Warszawie. Kierownik: prof. dr B.Gutowski.  
(CELLULOSE, determination,  
in investigation of digestive physiol. in ruminants)  
(GASTROINTESTINAL SYSTEM, physiology,  
investigation with cellulose tests in ruminants)

**GILL, James**  
~~was destroyed in 1964~~

Investigation of Infusoria in contents of the gastrointestinal system  
in *Bison bonasus* L. *Acta physiol. polon.* 5 no.4:530-532 1954.

1. Z Zakładu Fizjologii Zwierząt Wydz. Weterynaryjnego Szkoły Głównej  
Gospodarstwa Wiejskiego w Warszawie. Kierownik: prof. dr B.Gutowski.

(PROTOZOA,

Infusoria in gastrointestinal system in *Bison bonasus*)

(GASTROINTESTINAL SYSTEM,

Infusoria in *Bison bonasus*)

GILL, J.

Studies on physiology of digestion in deer elaphus L. Acta physiol.  
nolon. 8 no.3:335-336 1957.

1. Z Katedry Fizjologii Zwierząt Wydz. Weter. Szkoły Głównej  
Gospodarstwa Wiejskiego w Warszawie. Kierownik: prof. dr B. Gutowski.  
(GASTROINTESTINAL SYSTEM, physiology,  
digestion in deer (Pol))  
(ANIMALS,  
deer, digestion physiol. (Pol))

GILL, J.

Attempted determination of the rate of passage of gastrointestinal contents in wild ruminating animals; *Cervus elaphus* L., *Dama dama* L., and *Lama glama* L. *Acta physiol. polon.* 8 no.3:336-338 1957.

1. Z Katedry Fizjologii Zwierząt Sydz. Weter. Szkoły Głównej.  
Gówpodarstwa Wiejskiego w Warszawie. Kierownik: prof. dr B. Outowski.

(ANIMALS,

ruminating, gastrointestinal passage of content, determ.  
of rate (Pol))

(GASTROINTESTINAL SYSTEM, physiology,

passage rate of content in ruminating animals, determ. (Pol))

GILL, James

The rate of passage of food through the digestive system in Indian elephant (*Elephas maximus* L.) in zoo conditions. Acta physiol. polon. 11 no. 2: 277-289 Mr-Apr '60.

1. Laboratorium Fizjologiczne Miejskiego Ogrodu Zoologicznego w Warszawie, Kierownik: prof. dr B. Gutowski.  
(ANIMALS)  
(GASTROINTESTINAL SYSTEM physiol.)

GILL, J.; HOFFMANNOWA, H.; PIEKARZ, R.

Digestive capacity of the salivary glands, pancreas and duodenum and size of the digestive system in boars (*Sus scrofa* L.) *Acta physiol. polon.* 11 no.5/6:706-707 '60.

1. Z Laboratorium Fizjologicznego Miejskiego Ogrodu Zoologicznego w Warszawie. Z Zakladu Hodowli Doswiadczalnej PAN.

(SALIVARY GLANDS physiol)

(PANCREAS physiol)

(DUODENUM physiol)

(GASTROINTESTINAL SYSTEM physiol)



GILL, J.; HOFFMANNOWA, H.; PIEKARZ, R.

Effect of histamine on the course of digestive and secretory activity in the stomach in boars (*Sus scrofa* L.). *Acta physiol. polon.* 11 no.5/6:707-709 '60.

1. Z Laboratorium Fizjologicznego Miejskiego Ogrodu Zoologicznego w Warszawie. Z Zakladu Hodowli Doswiadczalnej PAN.

(STOMACH pharmacol)

(GASTRIC JUICE)

(HISTAMINE pharmacol)

JACZEWSKI, Z.; GILL, J.; KOZNIIEWSKI, S.

Regulation of blood pressure in the brown bear (*Ursus arctos* L.).  
Bul Ac Pol biol 9 no.5:227-229 '61. (EEAI 10:9)

1. Laboratory of Physiology, Municipal Zoological Garden, Warsaw and  
Laboratory of Game Animals Physiology, Polish Academy of Sciences,  
Popielno. Presented by W. Stefanski.

(BLOOD PRESSURE) (BEARS)

GILL, Janusz; JACZEWSKI, Zbigniew

Regulation of the blood pressure in the European bison, *Bison Bonasus* (L). *Acta physiol pol* 12 no.6:859-857 '61.

1. Physiological Laboratory at the Zoological Garden in Warsaw, Ratuszowa 1/3 (for Gill) 2. Department of Experimental Animal Breeding, Polish Academy of Sciences, Popielno, District Pisz (for Jaczewski)

(Poland—Bison) (Blood pressure)

HOFFMANNOWA, Hanna; GILL, Janusz; PIEKARZ, Ryszard

Studies on the digestive physiology of the wolf (*Canis lupus* L.), dingo (*Canis dingo* L.) and jackal (*Canis aureus* L.). I. Effect of histamine on the course of digestive-excretory processes of the stomach under morphine-eunarcon anesthesia. *Acta physiol. Pol.* 15 no.1:125-136 Ja-F '64.

Studies on the digestive physiology of the wolf (*Canis lupus* L.), dingo (*Canis dingo* L.) and jackal (*Canis aureus* L.). II. Digestive capacity of the pancreas, duodenum and salivary glands; size of the digestive system; weight of internal organs. *Ibid.*:137-148

1. A Laboratorium Fizjologicznego Miejskiego Ogrodu Zoologicznego w Warszawie (Kierownik: mgr J. Landowski) i Z Zakładu Hodowli Doświadczalnej Zwierząt Państwowej Akademii Nauk (Kierownik: prof. dr Z. Kaminski [deceased]).

GILL, Janusz

Regulation of blood pressure and respiration and effect of lactic acid on the pressor effect of epinephrine and nor-epinephrine in the hare (*Lepus europaeus* Pallas 1778). *Acta physiol. Pol.* 16 no.1:81-103 Ja-F '65.

1. Katedra Fizjologii Zwierząt Wydziału Weterynarii Szkoły Głównej Gospodarstwa Wiejskiego w Warszawie (Kierownik: prof. E. Domanski) i Laboratorium Fizjologiczne Miejskiego Ogrodu Zoologicznego w Warszawie (Dyrektor: mgr. J. Landowski).



**KOŁODZIEJSKI, Jozef; GILL, Stanislaw**

Daily qualitative variations of oil in certain plants of families  
Labiatae and Compositae in various stages of development. Farm.  
polska 10 no.3:72-76 Jr '54.

1. Z Zakładu Farmakognozji A.M. w Gdansk. Kierownik: prof. Dr  
J.Kołodziejski.

(PLANTS,

\*Labiatae & Compositae, daily qualitative variations of  
oil in various stages of develop.)

(OIL,

\*Labiatae & compositae oils, daily qualitative variations  
in various stages of plant develop.)

GILL, Stanislaw, Dr. Farm.

The code of pharmaceutical dentology should take into account  
the specific character of the profession. Farmacja Pol 16 no.  
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GILL, Stanislaw

The usefulness of the more recent methods in chemistry for the appreciation of tannin raw materials. *Farmacja Pol* 18 no.5:108-112 Mr '62.

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GILL, Stanislaw

Critical evaluation of the new physicochemical methods of determining tanning agent raw materials. *Farmacja Pol* 18 no.13:312-314 10 J1 '62.

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POLAND

GILL, S.: The Chair of Pharmacognosy AM (Academy of Medicine), Gdansk  
(Katedra Farmakognozji A.M. w Gdanaku).

"The Selectivity of Biological Methods in Evaluation of Tanning Raw  
Materials."

Warsaw, Pharmacja Polska, Vol 19, No 3, 10 Feb 67, pp 45-47

Abstract: The author gives a critical analysis of the various methods  
of estimating the tanning agents in raw materials.  
Twenty references are cited of which six are from the Soviet block.

2/1

POLAND

KONOPNIEWSKI, J., GILL, R. and PRZYBYLOSKI K.; The Chair of Pharmacology  
Medical Academy, Warsaw (Katedra Farmakologii Akademii Medycznej  
w Warszawie).

"Toxic Agents in Plants. Morphological Parts of Lemna gibba L."

Warsaw, Prace i Pisma, Vol 19, No 1, 10 Feb 63, pp 47-50

Abstract: Various parts of Lemna gibba L. were subjected to qualitative  
and quantitative tests for the presence of toxins. The bulk of these  
materials was found to be in the roots.

This article contains three tables and twenty three references. Fifteen  
of the references are from the Soviet block.

KOŁODZIEJSKI, Jozef; GILL, Stanislaw; MRUK, Anna; SUREWICZ-SZEWczyk,  
Halina

Variable content of ethereal oils and tannic compounds during  
the vegetation stage of *Salvia officinalis* L. Acta pol. pharm.  
20 no.3:269-276 '63.

1. Z Katedry Farmakognozji Akademii Medycznej w Gdansk Kierownik:  
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(PLANTS, MEDICINAL) (OILS, VOLATILE) (TANNINS)

KOŁODZIEJSKI, Józef; GILL, Stanisław; MRUK-LUCZKIEWICZ, Anna

Effect of wilting on the yield, content and physico-chemical stability of the principal components of the oil of *Thymus vulgaris* L. Acta pol. pharm. 30 no.5:349-355 '63.

1. Katedra Farmakognozji Akademii Medycznej w Gdansk; kierownik: prof.dr. J.Kolodziejski.

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GILL, Stanislaw

Studies on the chemical composition of *Trifolium arvense* L.  
IV. Isolation and identification of kaempferol-3-glycoside.  
*Acta Pol. pharm.* 21 no.3:287-290 '64

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(Kierownik: prof. dr. J. Kolodziejcki).

GILL, Stanislaw

Thin-layer and paper chromatography of quinclizidine alkaloids present in some species of *Typhis* L and *Genista* L. *Acta Pol. pharm.* 21 no.4:379-386 '64.

1. Z Zakladu Farmakognozji Instytutu Farmaceutycznego w Bernie (Kierownik: prof. dr. E. Steinegger); z Zakladu Farmakognozji Akademii Medycznej w Gdansk (Kierownik: prof. dr. J. Kolodziejewski).



KOŁODZIEJSKI, Jozef; GILL, Stanisław; LUCZKIEWICZ, Irena

Localization of sparteine in *Cytisus scoparius* Link. (*Sarothamnus scoparius* L. Wimm.) during the vegetation stage. *Acta Pol. pharm.* 21 no.6:501-508 '64

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G  
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Secretion of saliva in ingestion of kefir and milk, acidified by lactic acid; experimental study. Vopr.pediat. 18 no.2:36-38 Mr '50.(GML 19:3)

1. Of the Department of Child Physiology and Dietetics, Ukrainian Scientific-Research Institute OKhMD (Director -- Candidate Medical Sciences A.O.Logunova; Scientific Director -- Honored Worker in Science Prof. S.Ya.Shafershteyn).

SVOBODA, M., inz.; GILLAR, J., promovany biolog; SALPLACHTA, J.; HLAVKA,  
C. M., inz.; STELCLOVA, D.; MARVAN, P., RNDr.

Last stage purification of dairy waste waters by biologic  
filters. Vodni hosp 14 no.6:219-222 '64.

1. Institute of Dairy Research Brno (for all except Marvan).
2. Research Institute of Water Resources Management, Brno (for Marvan).

SECRET, S. S.

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SECRET, S. S. Bulletin de l'Institut de Recherche / Centre  
de Recherche en Automatique, Vol. 14, No. 1, Jan. 61, pp. 55-68.  
"Inadequate Stability Condition for Non-linear Control  
Systems"

Co-author:

SECRET, S. S.

(French)

GILLE, J.C.; WEGRZYN, S.

Stability of nonlinear systems of the second order. Bul Ac Pol  
tech 10 no.9:563-570 '62.

1. Ecole Nationale Supérieure de l'Aéronautique, Paris (France),  
et Laboratoire de la Théorie de la Communication, Institut des  
Problèmes Techniques Fondamentaux, Académie Polonaise des  
Sciences, Warsaw. Presented by J.Groszkowski.

GILBE, J. J.: WBCN77H, S.

Stability of conservative associated equations. In: *Pol tech* 12  
no.6:425-430 '64.

.. National School of Technology, Institute of Automatic  
control, Polish Academy of Sciences, Warsaw. Presented by J. Broszkowski.

P/0019/64/013/001/0003/0014

ACCESSION NR: AP4039448

AUTHOR: Gille, J. C.; Wegrzyn, S.

TITLE: A sufficient condition for the stability of second order nonlinear system

SOURCE: Archiwum elektrotechniki, v. 13, no.1, 1964, 3-14

TOPIC TAGS: Automatic control, control theory, automatic control system, nonlinear control system, second order nonlinear system, control system stability, differential equation, second order differential equation

ABSTRACT: The authors previously (J. C. Gille and S. Wegrzyn, "O pewnym wystarczającym warunku stabilności nieliniowych układów automatyki." Automat i Telemek, Vol VII, nos 1 and 2, 1962) proposed a practical condition for nonlinear stability which was unusually simple in application. They also indicated the feasibility of defining more precisely the areas of its application. The present article attempts to do this very thing. The conditions for a second order system were determined and the proof was given. In a stable linear differential equation  $\lambda_1 \ddot{x} + \lambda_2 \dot{x} + \lambda_3 x = 0$  the coefficient  $\lambda_2$  represents the losses in the system while the coefficients  $\lambda_1$  and  $\lambda_3$  represent the retentive properties. The differ-

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ACCESSION NR: AP4039448

ence in these two types of coefficients is also unusually useful in the case of an analysis of nonlinear systems. The following two special cases are therefore examined in detail: (1) nonlinear second order differential equations, all the coefficients of which (losses and retentions) are the functions of the variables  $x$ ,  $\dot{x}$ , and  $\ddot{x}$ , while the coefficients of retention are constant. This type of equation was called a type of equation with nonlinear scatter. The authors proved that strict stability conditions for these two types of nonlinear equations are different. The requirements for group 1 are higher than for group 2. Authors conclude that the stability conditions derived in the above-mentioned previous study for linear static conjugate systems assures the stability of nonlinear systems provided the latter system belongs to a system type with nonlinear scattering. If the coefficients of retention are also nonlinear, then this condition should be supplemented by an additional uniqueness condition for the nonlinear coefficients. It would be of great interest if the results could be generalized for equations of high orders. Original article has: 11 figures and 21 equations.

ASSOCIATION: Ośrodek Badan Naukowych Automatyki, Paris (Scientific Research Center for Automatic Control); Instytut Automatyki PAN, Warsaw (Institute of Automation, PAN)

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2/3.



ACCESSION NR: AP4039448

SUBMITTED: 11Aug63

SUB CODE: IE, MA

DATE ACQ: 18Jun64

NO REF SOV: 001

ENCL: 00

OTHER: 003

Card 3/3

GILLEMOT, Ferenc (Budapest, XI., Tarcali u.2); HORVATH, Miklos (Budapest, I.,  
~~Parrashiro ut 10)~~

The 30, position welding. Periodica polytechn eng 8 no.3:353-  
362 '64.

1. Submitted February 28, 1964.

CA

9

The mechanical properties of the Al alloys replacing  
cast Sn bronze 14-26 Gillemot and Leron Nagy  
Technica (Budapest) 23, 338-341 (1912). *See Tech*  
1943, 1, 1512. The effect of the Sn, Zn and Mg content  
of Al-Mg-Zn-Sn alloys on tensile and compressive  
strength, Brinell hardness and reliability was investi-  
gated. The two best alloys were of the following compo-  
sition: (a) Mg 4, Zn 2, Sn 3%, rest Al, tensile strength 16 kg  
mm<sup>2</sup>, compressive strength 60, elastic limit in compression  
42, Brinell hardness 70; (b) Mg 2, Zn 7, Sn 1%, rest Al,  
in cast (or refined) condition, tensile strength 16.1-20,  
compressive strength 70, elastic limit in compression 46,  
Brinell hardness 90 (120). They are suitable for highly  
stressed worm-gear drives, but lose strength and hardness  
at higher temps. M. Kantenbein

AS 4 14 DETAILING LITERATURE CLASSIFICATION

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CA

The testing of bearing metals. Pavlo G. Berman  
Zakaria (Budapest) 23, 197 202 (1912). (Comm. 1912)  
1942, II, 1840. -- A specially developed bearing-testing  
machine for detg. the running properties is described  
which gave good results by supplementing the results by  
data of hardness and phys. data of the bearing metal  
M. Hartenheim

ASR-35A METALLURGICAL LITERATURE CLASSIFICATION

1900-1910

1910-1920

1920-1930

1930-1940

1940-1950

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	00
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CA

23

A precision tensile-strength testing machine for paper and textile investigations. László Chikmár. Technical (Hungary) 23, 285-33(1947). (Rev. 2/48). 1948, 11, 1162-3.—The theoretical basis and a description of a tensile-strength testing machine for paper, leather and textile investigations are given; the machine has a range of 300-400 and 40-1000 kg. The error is about 0.1-0.2%.

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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\*The Substitution of Cast Bearing Alloys by Aluminium Alloys. Lasts (Giletti) (*Technica*, 1942, 82, 207-275, *Chem. Zvesti*, 1942, 114, (3), 1512, 1513, 1944, 82, 3507). Laboratory and practical tests have given full evidence that aluminium magnesium zinc antimony alloys with magnesium 3-6-4, zinc 2, antimony 1-1.5% can replace the cast bronzes used for sleeve bearings, and that their frictional properties are superior. Mechanical and technological properties are in part better, in part slightly inferior to those of the bronzes. The only major disadvantage is their relatively high thermal expansion; this, however, becomes important only in bearings operating above 100°C and can be overcome by correct design.

A 10.11.6 METALLURGICAL LITERATURE CLASSIFICATION

1900 519,834,99

13.14 13.15

1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 26



Improved utilization of bauxites. László Gillemt  
Aluminaum (Budapest) 2, 25-32 (1959). The processing of  
high iron content bauxites has been found to be economical  
if iron and alumina are produced simultaneously. The  
bauxite is roasted and then a magnetic separation process is  
applied, as a result of which an iron-enriched portion and a  
low iron content portion are obtained. The iron-enriched  
part can be directly utilized as iron ore, while the low iron  
content portion can be utilized to produce alumina accord-  
ing to the Bayer process. The drying process can be  
dispensed with, since the ore is roasted prior to magnetic  
sepn. The iron-enriched portion has a reduced content of  
slag components and is suitable for producing high-grade  
gray iron and steel for transformer sheet and welding rods  
E. Gross



*Forging, Drawing, Tempering*  
*Pressing*

**Patenting Steel Wires by High-Frequency Induction Heating.**  
L. Chikmol and I. Kovacs. (Acta Technica Academiae Scientiarum Hungaricae, 1950, 1, 1, 60-77). (In German). In conventional patenting steel wires are heated to about 2000°C in long furnaces while on their way to the lead bath. A new method is described whereby the wires are preheated by high-frequency induction. The theoretical development of the induction heating coil and its performance are checked in actual operation in steel wire patenting as checked in the advantages attainable are discussed.

Met. als.

13

**Apparatus for Determining True Tensile Stresses.** L. Gillemot.  
(Acta Techn. Acad. Sci. Hungar., 1951, 1, (3), 101-107).  
[In German]. Tensile testing machines usually incorporate  
a drum for the automatic registration of stress, as ordinates,  
and extension, as abscissas; but, in general, these do not take  
account of the change of cross sectional area of the test piece  
under stress. A pendulum device, whereby this defect is  
eliminated, and the true stress, viz. tension/actual cross sec-  
tional area, is inscribed on the record, is described. J. S. G. T.

ASAP SLA METALLURGICAL LITERATURE CLASSIFICATION

\$119 • \$96.00

62

CA

Investigation of spheroidal (nodular) graphite 1.  
Callmann. *Acta Tech Acad Sci Hung* 2, 79 (1961).  
(German summary). The occurrence of nodular graphite  
in cast iron in the presence of Si and Ce was studied. It  
was found that its formation took place only between cer-  
tain chem compn limits and that it may be related to the  
decreased of supercooled carbides. Factors and condi-  
tions affecting spheroidizing were discussed. A J A

APPROVED FOR RELEASE Thursday, September 26, 2002  
APPROVED FOR RELEASE Thursday, September 26, 2002

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MONASZATI LAPOK  
HUNGARIAN JOURNAL OF METALLURGY  
VOL. VI (LXXIV) 1951  
No. 2, Feb.

1. Collected.  
New ways of processing Hungarian  
handide

ASH 51.8 METALLURGICAL LITERATURE CLASSIFICATION

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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## GILBERT 4.

When the two electrodes are held in the hand, the arc of the electrode is in the center, and the welder fills the metal with the electrode. A disadvantage of this method is that the electrode is not in the center of the electrode, and the electrode is not in the center of the electrode, and the electrode is not in the center of the electrode. Another disadvantage of it is that the electrode is not in the center of the electrode.

Disadvantages of the methods reviewed above may be eliminated if a welder holds a common welding rod with the standard electrode holder while holding the other rod horizontally into the work.

From the practical point of view, this method presents three advantages: (1) The electrode is a three-phase transformer. Two single-phase transformers can be used as well, but the combination transformer dynamic is more very unstable. Two results of the method reviewed method may be summarized up as follows:

- (1) The method is a combination of the principle of double-rod welding, which is more than double in relation to the ordinary method. (2) The low current intensity shown on paper is the result. (3) The operation of welding is very simple, which because the welder does not have to be taken to remove slag or to increase the heat of the arc. Even beginners can attain a very good result than with common arc welding. (4) There is a 40-50% economy in energy consumption. (5) Contrary to the Humboldt-Hofer method, no special welding is required on the welding rods.

From author's English summary

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Nitridable titanium steels. L. A. G. Gilman and Mrs. Tibor Tolsky. *Exp. 10: 177-84 (1958)*. Fourteen samples of steel, having Ti/C ratios between 1.04 and 20.8, were nitrided at 550, 600, and 680°, resp., for 1-7 hrs. in an atm. of 80% N and 20% NH<sub>3</sub>. Where Ti/C < 4, the depth and hardness of the nitride layer was the same for treatment at any given temp. and time, regardless of compn. (for example, a 0.7-mm.-deep layer of 680° Vickers hardness was obtained on 2 steels with Ti/C of 1.04 and 3.79, resp.). Where Ti/C > 4, the hardness of the nitride layer will vary between 800 and 1400, depending upon the Ti content. Steels with Ti/C < 4 were found suitable for the manuf. of parts presently made of mild steels, while steels with Ti/C > 4 are recommended for parts presently made of carburized or case-hardened steels. Hardness of the nitride layer (after 5 hrs. treatment at 600°) is equiv. to that of the carburized surface, and no appreciable distortion is evident after heat-treatment of nitrided parts. Nitriding was found to require less time than any other process yielding comparable results. Tensile strength, hardness, fatigue, nitride layer depth, and bendability test results were given for all steels examd. under various treating conditions. Nitrided Ti steels were found suitable for the manuf. of parts subject to fatigue in service and parts made from such steels require little after-treatment after shaping, if any. L. A. G. Gilman

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